

Record all ATV information in the *Quick Reference Data* section at the front of this manual. Have this information on hand when purchasing parts.

## FASTENERS

Proper fastener selection and installation is important to ensure the ATV operates as designed and can be serviced efficiently. The choice of original equipment fasteners is not arrived at by chance. Make sure replacement fasteners meet all the same requirements as the originals.

### Threaded Fasteners

Threaded fasteners secure most of the components on the ATV. Most are tightened by turning them clockwise (right-hand threads). If the normal rotation of the component would loosen the fastener, it may have left-hand threads. If a left-hand threaded fastener is used, it is noted in the text.

Two dimensions are required to match the thread size of the fastener: the number of threads in a given distance and the outside diameter of the threads.

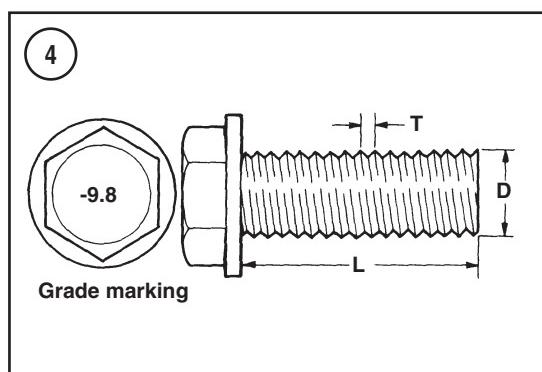
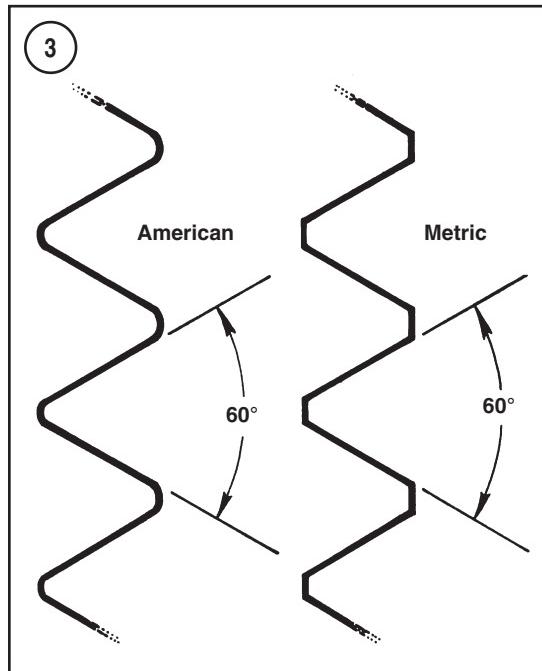
Two systems are currently used to specify threaded fastener dimensions: the U.S. Standard system and the metric system (**Figure 3**). Pay particular attention when working with unidentified fasteners. Mismatching thread types can damage threads.

#### NOTE

*To ensure the fastener threads are not mismatched or cross-threaded, start all fasteners by hand. If a fastener is hard to start or turn, determine the cause before tightening with a tool.*

The length (L, **Figure 4**), diameter (D) and distance between thread crests (pitch) (T) classify metric screws and bolts. A typical bolt may be identified by the numbers 8—1.25 × 130. This indicates the bolt has diameter of 8 mm, the distance between thread crests is 1.25 mm and the length is 130 mm. Always measure bolt length as shown in **Figure 4** to avoid purchasing replacements of the wrong length.

If a number is located on the top of the fastener (**Figure 4**), this indicates the strength of the fastener. The higher the number, the stronger the fas-



tener. Generally, unnumbered fasteners are the weakest.

Many bolts and studs are combined with nuts to secure particular components. To indicate the size of a nut, manufacturers specify the internal diameter and the thread pitch.

The measurement across two parallel flats on a nut or bolt head indicates the wrench size that fits the fastener.

#### WARNING

*Do not install fasteners with a strength classification lower than what was originally installed by the manufacturer. Doing so may cause equipment failure and/or damage.*

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